

Title (en)  
PROCESS FOR THE MANUFACTURE OF 1-[2-(2,4-DIMETHYL-PHENYLSULFANYL)-PHENYL]-PIPERAZINE

Title (de)  
VERFAHREN ZUR HERSTELLUNG VON 1-[2-(2,4-DIMETHYL-PHENYLSULFANYL)-PHENYL]-PIPERAZIN

Title (fr)  
PROCÉDÉ DE FABRICATION DE 1- [2- (2,4-DIMÉTHYL-PHÉNYLSULFANYL)-PHÉNYL]-PIPÉRAZINE

Publication  
**EP 2800746 B1 20190417 (EN)**

Application  
**EP 12815676 A 20121220**

Priority  
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Abstract (en)  
[origin: WO2013102573A1] A process for the manufacture of 1-[2-(2,4-dimethyl-phenylsulfanyl)-phenyl]-piperazine and pharmaceutically acceptable salts is disclosed that involves reacting compounds of formula II, III, IV under Pd catalysis and in presence of phoshine ligands to give Compound I.

IPC 8 full level  
**C07D 295/096** (2006.01)

CPC (source: CN EP RU US)  
**C07D 295/096** (2013.01 - CN EP RU US); **Y02P 20/55** (2015.11 - EP US)

Citation (examination)  
• WO 2010094285 A1 20100826 - LUNDBECK & CO AS H [DK], et al  
• MICHAEL B. SMITH: "Organic Synthesis", 1946, ISBN: 978-1-890661-40-3, pages: 588 - 622  
• R. N. SALVATORE ET AL.: "Synthesis of secondary amines", TETRAHEDRON, vol. 57, 2001, pages 7785 - 7811, XP004304423, DOI: doi:10.1016/S0040-4020(01)00722-0

Designated contracting state (EPC)  
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DOCDB simple family (publication)  
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**EP 2012076377 W 20121220**; AU 2012364402 A 20121220; BR 112014016322 A 20121220; CA 2860103 A 20121220; CL 2014001765 A 20140630; CN 201280065665 A 20121220; CO 14139608 A 20140627; CY 191100483 T 20190507; DK 12815676 T 20121220; EP 12815676 A 20121220; HK 15101354 A 20150206; HR P20190769 T 20190425; IL 23309314 A 20140612; JP 2014550676 A 20121220; KR 20147018202 A 20121220; LT 12815676 T 20121220; MX 2014008052 A 20121220; PL 12815676 T 20121220; RS P20190553 A 20121220; RU 2014131943 A 20121220; SG 11201403835U A 20121220; SI 201231600 T 20121220; US 201214370322 A 20121220; ZA 201404881 A 20140702